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Profile

MSc and BSc graduate in Artificial Intelligence with applied research experience at Philips and client-facing software development experience. Combines experimental design, model evaluation, system architecture and software engineering to develop practical, production-oriented AI solutions.

Education

Vrije Universiteit Amsterdam Amsterdam, The Netherlands

- **Master of Artificial Intelligence** Sep 2023 – Jul 2025
- **Bachelor of Artificial Intelligence** Sep 2018 – Jul 2023

Skills & Technologies

Methods: Machine Learning, Symbolic, Generative & Agentic AI, Data Preprocessing, Experimental Design, Model Evaluation

Engineering & Tools: Python, System Architecture, Full-stack Development, Git, CI/CD

Experience

traic.ai Amsterdam, The Netherlands
AI Engineer & Consultant Oct 2025 – Present

- Designing production-ready AI and software solutions for clients, from requirements and feasibility through architecture, implementation and integration. Advising stakeholders on technical trade-offs, risks and costs.

Confidential Client | Field Service Operations Platform | Infrastructure Sector Jul 2026 – Present

- Developing a multi-tenant field service platform for job intake, inspections, scheduling, field execution, approvals and reporting. Internal tests suggested 83% less intake time (20 seconds vs. 2 minutes per job); development ongoing.
- Built a React frontend and Fastify REST APIs, in TypeScript, with Node.js for the backend and Azure SQL for transactional persistence and concurrency control.
- Configured Azure App Service deployment through GitHub Actions CI/CD, integrated Microsoft Entra ID authentication and implemented tenant isolation and role-based access control, accounting for EU data residency requirements.

Köster Advocaten | Meeting Documentation Platform | Legal Sector Apr 2026 – Jul 2026

- Developed an AI meeting documentation platform with human review. Internal tests suggested 50% less time for the review-inclusive workflow (10 vs. 20 minutes per hour of audio); progressed to the pilot stage.
- Built a Next.js application with a React frontend and server routes in TypeScript, alongside Python pipelines for transcription with Azure Speech, structured extraction with Azure OpenAI and DOCX generation. Integrated Microsoft Graph for Microsoft 365 email distribution.
- Configured Python processing on Azure Functions, integrated Microsoft Entra ID authentication and addressed retention and governance requirements, accounting for EU data residency requirements.

Philips Eindhoven, The Netherlands
Artificial Intelligence Researcher – Internship Jan 2025 – Jul 2025

- Developed an LLM-based system for arrhythmia-related symptom interpretation in clinical decision support. Best observed precision: 0.871 ($\Delta p = +0.185$ vs. corresponding baseline).
- Built agent-to-agent workflows in Python using AWS Bedrock models, incorporating different reasoning strategies, context management and memory approaches.
- Compared LLMs and agent architectures across clinical scenarios and edge cases through controlled experiments, assessing performance, robustness and failure modes. Identified limitations requiring further clinical validation.
- Named co-inventor on a pending U.S. patent application for AI-driven clinical decision support.

Academic Projects

Socially Intelligent Robotics Mar 2025

- Developed a multimodal approach to mood swing detection in human-robot interaction, combining text, speech and visual emotion recognition.
- Evaluated mood swing detection performance by comparing unimodal text-based and multimodal approaches using text, speech and visual information.
- *Methods:* Multimodal perception, emotion recognition, classification, speech processing, system integration.
- *Tools:* Python, LangChain, OpenAI, Hugging Face, Jupyter.

Subjectivity Mining Nov 2024

- Developed ensemble approaches for hate speech detection, combining classification models through hard voting, soft voting and stacking.
- Evaluated hate speech detection performance by comparing ensemble methods across in-domain and cross-domain datasets using classification metrics and error analysis.
- *Methods:* SVM, ensemble learning, feature selection, stacking, cross-domain evaluation.
- *Tools:* Python, Pandas, NumPy, scikit-learn, Hugging Face, Jupyter.

Machine Learning for the Quantified Self Jun 2024

- Developed a human activity recognition pipeline using smartphone accelerometer and gyroscope data, incorporating signal preprocessing, feature engineering, feature reduction from 121 to 75 features and machine learning classification.
- Evaluated human activity recognition performance by comparing SVM and Random Forest models, achieving test accuracies of 80% and 71%, respectively.
- *Methods:* Time series analysis, signal processing, PCA, feature selection, grid search, cross-validation.
- *Tools:* Python, Pandas, NumPy, scikit-learn, Jupyter, Phyphox.

Multi Agent Systems Feb 2024

- Developed implementations of Monte Carlo simulation, Thompson sampling, SARSA and Q-learning, including experience replay.
- Evaluated reinforcement learning performance by comparing algorithms based on exploration-exploitation trade-offs, reward convergence and policy behavior.
- *Methods:* Bayesian inference, multi-armed bandits, reinforcement learning, experience replay.
- *Tools:* Python, NumPy, Matplotlib.

Computational Intelligence Jun 2021

- Developed an evolutionary Neural Architecture Search (NAS) approach for CNN-based SVHN image classification, exploring 4,500 architectures through mutation, recombination and fitness-based selection.
- Evaluated SVHN image classification performance by comparing evolutionary NAS against fully connected and convolutional neural network baselines, achieving test accuracies of 93.4%, 92.2% and 91.9%, respectively.
- *Methods:* Evolutionary algorithms, neural architecture search, genetic operators, CNNs, fitness-based optimization.
- *Tools:* Python, PyTorch.